



Supplement of

Direct dating of overprinting fluid systems in the Martabe epithermal gold deposit using highly retentive alunite

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§1 Mineral separation and sample characterisation

Multiple mineral grains of alunite were separated. Thin sections were not made due to the small overall sample size and overall unconsolidated nature and quality of these samples. XRD was done on grains chosen for analysis to verify their mineralogy and purity, which showed samples to be 99% pure. All grains were 250-420 µm in size with sample size ranging between 100 mg and 150 mg.

No acids were used to clean samples. Even though such treatment may get rid of contamination, it can cause microstructural changes. It was decided to alternatively analyse each experiment with step-heating procedures that were detailed enough so as to allow the identification of contamination.

Sample ID	Target Mineral	Mass (mg)	Grain Size (µm)	Comment
Purnama P-01	Alunite	208.7	250-420	MP1: Alunite Vein: set on volcanic rock then as fracture fill
D3011643	Alunite	197.0	250-420	Purnama (MONYET) : Contact between sediment and quartz vein (high gold grade)
D3150595	Alunite	204.6	250-420	TorUluAla (KEJORA)
D3112423	Alunite	209.1	250-420	Ramba Joring (BASKARA HARIMAU): Phreatomagmatic breccia; polymict; trace sediment minor clast; altered by alunite-dickite-silica (high grade)
D3078029	Alunite	204.4	250-420	UluAlaHulu (GERHANA): Phreatomagmatic breccia; polymict; trace sediment - minor clast; altered by alunite-dickite-silica (high grade)
D3056884	Alunite	199.4	250-420	Horas: Crackle sandstone; crack/matrix fill by alunite +/- dickite (low gold grade)
D3067305	Alunite	202.0	250-420	UluAlaHulu (GERHANA): Phreatomagmatic breccia; polymict; altered by alunite-dickite-silica (low grade)
D3137821	Alunite	204.0	250-420	Horas: Massive sandstone; oxide staining; pervasive alunite-clay altered (low grade)
D3035222	Alunite	183.3	250-420	Ramba Joring (BASKARA HARIMAU): Alunite Vein (low gold grade)
D3049860	Alunite	195.9	250-420	Horas: Phreatomagmatic breccia; altered by alunite-silica (low gold grade); alunite matrix partly; clast dominant

Table S1: Details of mineral separation.

40 §2 Sample irradiation

Irradiation of samples for $^{40}\text{Ar}/^{39}\text{Ar}$ analysis was undertaken at the University of California Davis McClellan Nuclear Research Centre, CA, USA in the Central Facility position of their TRIGA reactor without rotation, with 1.0 mm of cadmium shielding as ANU CAN #30 for 6.0 hours on March 22, 2018.

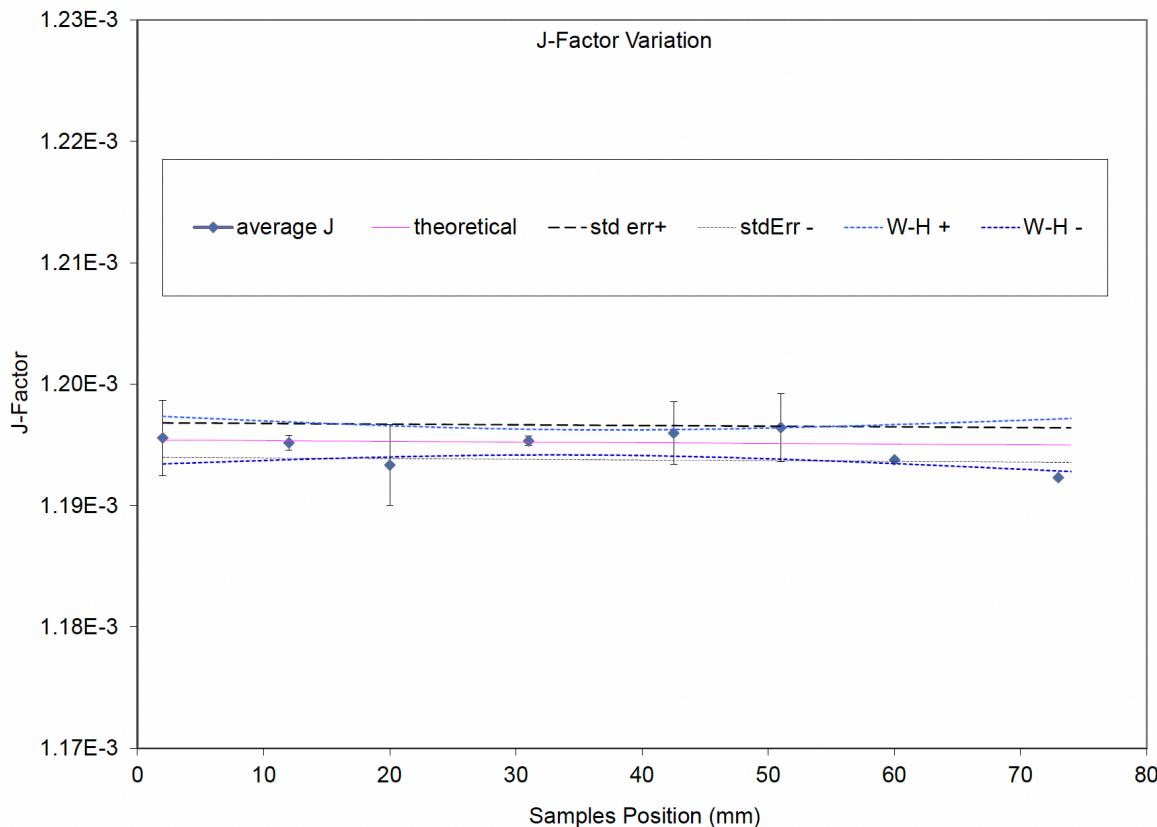
45

The calculated amounts of the aliquot of mineral grains were weighed and recorded and then wrapped in labelled aluminium packets in preparation for irradiation. The sample filled foils were placed into a quartz irradiation canister together with several aliquots of the flux monitor biotite GA1550. The foil packets of GA1550 standards were dispersed 6-8 mm apart throughout the irradiation canister, between the unknown 50 age samples. In addition, packets containing K_2SO_4 and CaF_2 were placed in the middle of the canister to monitor argon isotope production from potassium and other interfering elements.

Irradiated samples were unwrapped upon their return to the Australian National University, in an accredited dedicated radiation room, and then rewrapped in tin foils in preparation for analysis under 55 vacuum in the furnace. Tin foil is used because the melting temperature of tin is lower than the experiment starting point in the furnace and gasses from tin can be pumped away prior to the sample analysis.

J-Factor Regression

60 ANU CAN#30 was irradiated at the University of California Davis McClellan Nuclear Research Centre, CA, US. The fluence monitor was GA1550 Biotite. The plot below (Figure S1) shows the results for the calculation of the J-Factor regression for this irradiation batch that included these alunite samples.



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Figure S1: J-Factor variation with sample position in the irradiation canister. Each point represents the average of the measured J-Factor for the GA1550 fluence monitor in that particular spot of the canister. The error bar on each individual point represents the average uncertainty of several measurements. The purple line is the best fit regression for the J-Factor. The black dashed line represents the standard deviation of the means. The blue dashed lines represent the weighted deviation including uncertainties.

§3 Sample analysis

Resistance temperature-controlled furnace step-heating experiments were used to extract argon isotopes from the samples, with a temperature sequence rising to sufficiently high values to finally ensure 100% release of ^{39}Ar . This is essential if the percentage of ^{39}Ar released in each step is to be calculated.

Initial cleaning of the furnace is vital in this method. The furnace is degassed four times at 1450°C for 15 minutes and the gas pumped away prior to the loading of the sample. Blanks are measured to monitor the success of the cleaning process.

Each sample is dropped in turn into the cleaned furnace and heated to 400°C to melt the tin foil, and then left in the furnace at 350°C for 8-12 hours to allow volatiles to escape and to pump away unwanted gases. This cleaning procedure has proven to be vital in determining the quality of the resultant data.

The experiment then starts at 450°C. Each incremental heating step is heated at a constant temperature for 15 minutes. The heating process involves rapid heating to the designated temperature with no overshoot, an accurately maintained temperature for the duration of the heating time and rapid cooling after the heating event. An example of the shape to the temperature-time curve is provided in Figure S2.

The ^{39}Ar diffusion experiments are designed to calculate diffusion parameters which can be subsequently used in temperature-time modelling and simulation.

The heating schedules are recorded in the XML sequence provided for each sample. The peak temperature for each heating step rises by 20°C increments (except for the last a few steps) with 30-35 steps per sample. Figure S3 shows that whereas the initial steps are potentially the most suitable for diffusion experiments, the gas volumes released are impractically small,

The flux monitor crystals are fused using a CO₂ continuous-wave laser.

Gas released from the flux monitors or calibration salts in each laser well, or from the furnace after each step of the sample analysis, are exposed to three Zr-Al getters, two AP10 (one cold and one hot) and one CP50, for 10 minutes to remove active gases, the purified extracted gasses are then isotopically analysed in the Argus VI mass spectrometer.

Background levels are measured and subtracted from all analyses, both laser and furnace.

More details as to the $^{40}\text{Ar}/^{39}\text{Ar}$ dating technique utilised can be found in McDougall and Harrison (1999) and methodologies and procedures described in Forster and Lister (2009).

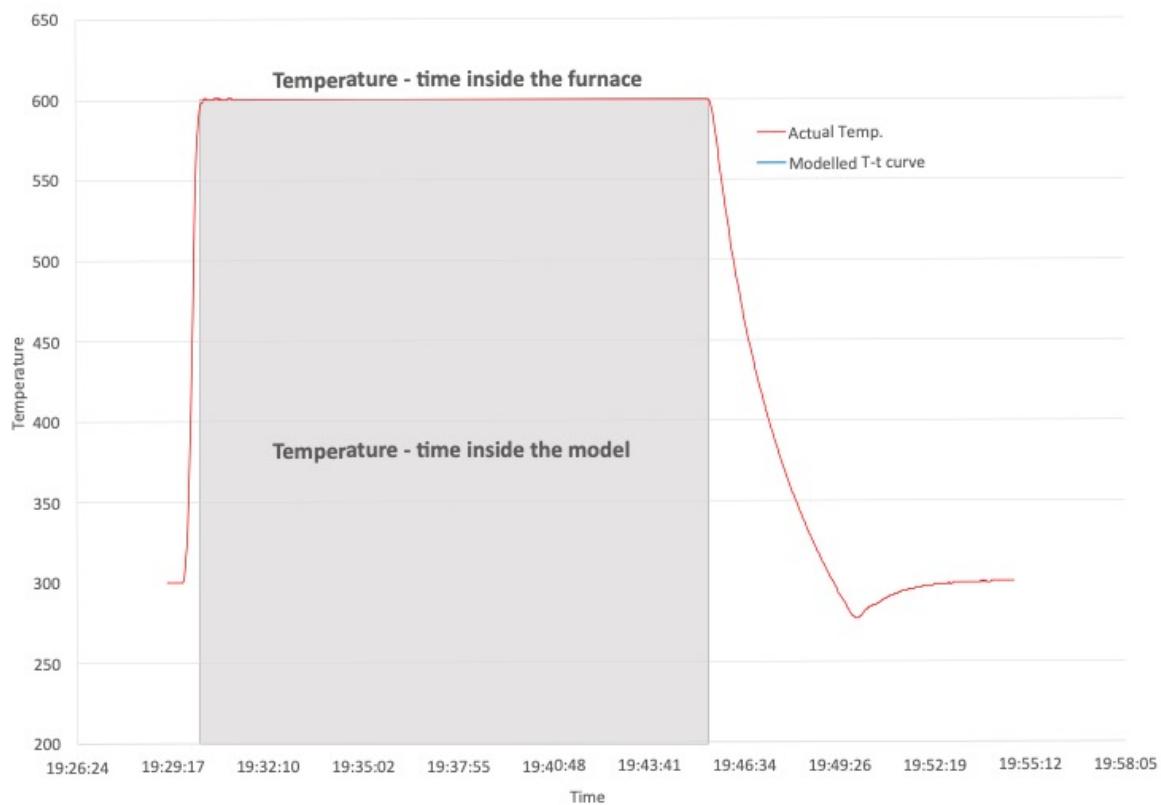
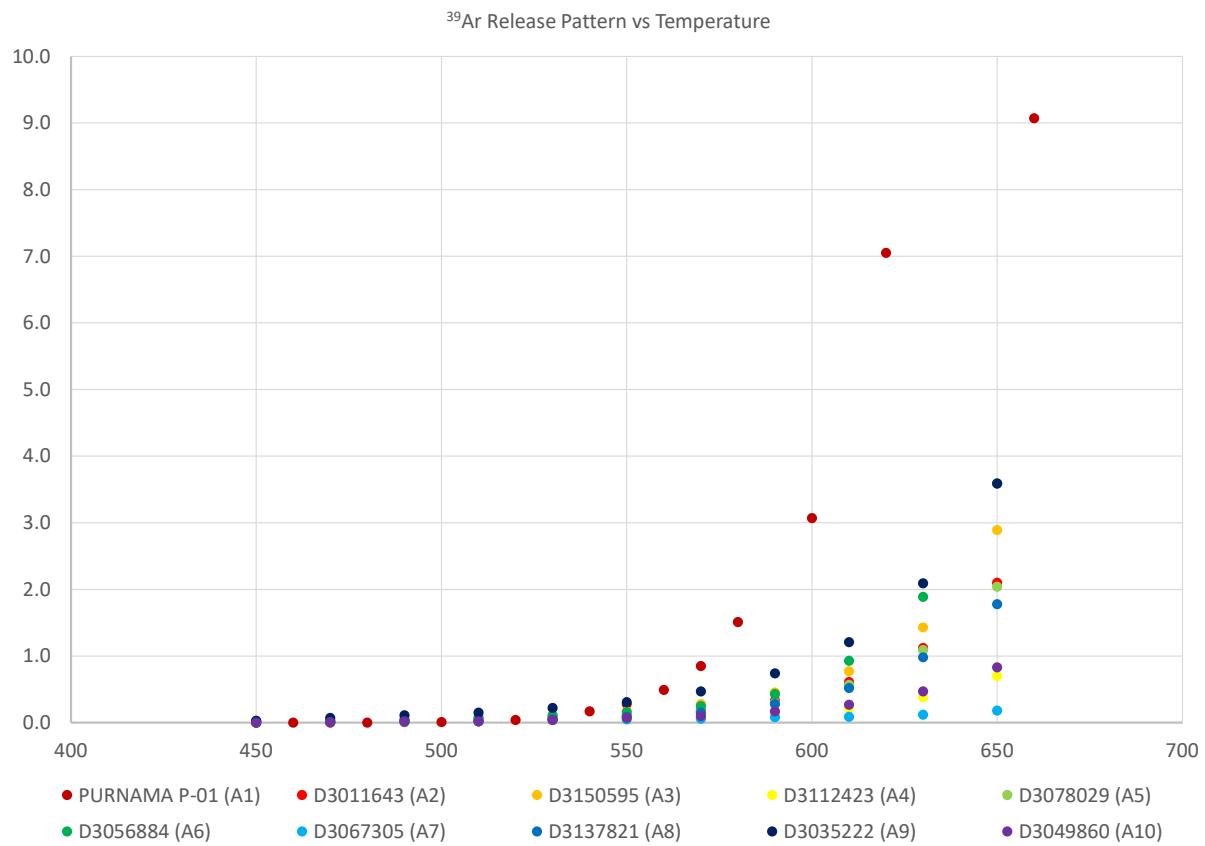


Figure S2: Temperature-time plotted for a single heating step (600°C for 900s) shown shaded. The shape for the curve differs from a Dirac function, so more ^{39}Ar will be released than expected. This means that diffusivity for each step will be over-estimated because the mathematics involved assumes no loss during heating and cooling in each step. The effect is minimised by using monotonic heating sequences.



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Figure S3: Percentage ³⁹Ar plotted against temperature, for the first 200°C of the step-heating schedule. Plot shows the ³⁹Ar release during the experiment starting at 450°C to ~650°C, being the first 200°C of the experiment. Each of the samples is colour coded as in the legend. Temperature °C is on the x-axis and the % release of ³⁹Ar is on the y-axis.

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§4 Mass spectrometer setup and procedures

125 Samples and standards were analysed in the Argon Facility at the Research School of Earth Science, The Australian National University, Canberra, Australia using a *ThermoFisher* ARGUS-VI multi-collector mass spectrometer (Table S2).

Mass Spectrometer:

ThermoFisher Argus VI

130 Collector Type:

Faraday Cups x5

Calibrations:

3 levels (Zero Offset, Gain and Cross Calibration)

Peak Centring

Once for every measurement @H₂ (⁴⁰Ar)

Measurement Cycles:

51 cycles on all collectors, for each measurement step

Extrapolation Method:

Exponential extrapolation and uncertainty

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Table S2: Detector Calibration Values

Name	UFC Offset [fA]	Gain	Cross Calibration Factor
H2	-4.9761469	0.9871203	1
H1	-2.2071069	0.9671459	1.007184188
AX	-7.6814703	0.9769602	1.017518151
L1	-2.3979322	0.9706487	1.030604297
L2	-3.1329948	0.9676338	1.047244337

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§5 Calculation parameters and Correction Factors

The calculation parameters:

	Lambda ^{40}K (Steiger and Jaeger 1977)	5.543E-10
145	Lambda ^{39}Ar (Kondev et al 2017)	7.0548E-06
	Lambda ^{37}Ar (Kondev et al 2017)	1.9798E-02
	Lambda ^{36}Cl (Kondev et al 2017)	6.2985E-09
	Flux Monitor (Spell and McDougall 2003)	GA1550 @ 98.5 ± 0.8 Ma
	Total irradiation power	6.0 MW
150	Irradiation Date	March 22, 2018
	Irradiation shielding	Cadmium 1.0 mm

Interfering isotope production ratios:

	$(^{36}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$ correction factor	3.2858E-04
155	$(^{39}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$ correction factor	7.9252E-04
	$(^{40}\text{Ar}/^{39}\text{Ar})_{\text{K}}$ correction factor	3.3453E-02
	$(^{38}\text{Ar}/^{39}\text{Ar})_{\text{K}}$ correction factor	1.1716E-02
	$(^{38}\text{Ar})_{\text{Cl}}/(^{39}\text{Ar})_{\text{K}}$ correction factor	8.1145E-02
	Ca/K conversion factor	1.90

160	Atmospheric Argon correction ratio:	
	$^{40}\text{Ar}/^{36}\text{Ar}$ (Nier 1950)	295.55
	$^{40}\text{Ar}/^{38}\text{Ar}$ (Nier 1950)	1580.95

- 165 The nuclear interfering values for the correction factors for the isotopes are listed below. These are measured for the reactions and uncertainties of $(^{36}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$, $(^{39}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$, $(^{40}\text{Ar}/^{39}\text{Ar})_{\text{K}}$, $(^{38}\text{Ar}/^{39}\text{Ar})_{\text{K}}$ and $(^{38}\text{Ar})_{\text{Cl}}/(^{39}\text{Ar})_{\text{K}}$, and these were calculated prior to sample analysis. Note that KCl salts are not included in every canister, as the derived correction factors are representative of a particular reactor, and reactor position. The neutron irradiation of ^{35}Cl and ^{37}Cl can convert them into $^{36}\text{Cl} \Rightarrow ^{36}\text{Ar}$ (with a half-life of 3.01E5 a) and $^{38}\text{Cl} \Rightarrow ^{38}\text{Ar}$ (with a half-life of 37.2 minutes) respectively. When the ratio of Cl/K is high and analysis is undertaken with a year delay from the time of irradiation, the production of ^{36}Ar from the decay of ^{36}Cl can cause a few percent drift in the calculated age from what can be expected. This is not relevant here, therefore. Note that (as recognised by Roddick et al 1983), the production ratio of $^{38}\text{Ar(Cl)}$ to $^{39}\text{Ar(K)}$ in KCl salt, is directly related to the ratio of thermal-neutrons to the fast-neutrons in the reactor.
- 170 Cadmium shielding 0.2 mm thick reduces the flux of the thermal neutrons significantly. With thicker cadmium shielding (1.0 mm) as used here, production of $^{38}\text{Ar(Cl)}$ would have been virtually eliminated.
- 175 Measuring the ratio between $^{38}\text{Ar(Cl)}$ and $^{39}\text{Ar(K)}$ is a sensitive method of determining the relative chlorine abundances in the sample and thus rectifying the $^{36}\text{Ar(Cl)}$ effect in the age calculation.

First, we measure the zero-age potassium salt to determine what proportion of measured ^{38}Ar comes
180 from irradiation of the potassium. The only stable chlorine isotopes are ^{35}Cl and ^{37}Cl and both can
absorb slow thermal neutrons and convert to ^{36}Cl and ^{38}Cl respectively. The half-life of the ^{38}Cl is in
order of minutes and it will convert into ^{38}Ar . Hence there are three different sources for ^{38}Ar : i) from
185 the atmosphere; ii) from fast neutron irradiation of potassium; and iii) slow thermal neutron irradiation
of chlorine. Since we have analysed the influence of zero-age potassium on ^{38}Ar and ^{40}Ar , the influence
of chlorine on ^{38}Ar and then ^{36}Ar can be calculated. However, the overall influence of chlorine on ^{38}Ar
was very significantly reduced by blocking thermal neutrons via the use of cadmium shielding. This
also ensured minimum recoil of ^{39}Ar from the lattice during irradiation.

190 §6 Representative air shot measurements

The discrimination factor was calculated by analysing five air shots analysis on either side of sample analysis and the calculation of the 1amu was used for the discrimination factor. Table S3 shows an example of the analysed air shots.

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Date	$^{40}\text{Ar} \pm \% \text{err}$		$^{38}\text{Ar} \pm \% \text{err}$		$^{36}\text{Ar} \pm \% \text{err}$		1amu	Reported Value
16-Jul-2018	1,853.764	0.019	1.117	2.365	5.985	0.338	0.98832	0.9876946 ± 0.152%
16-Jul-2018	1,853.070	0.023	1.129	2.249	5.926	0.352	0.98595	
16-Jul-2018	1,852.046	0.019	1.139	2.154	6.001	0.437	0.98919	
16-Jul-2018	1,851.791	0.017	1.151	1.843	5.990	0.371	0.98880	
16-Jul-2018	1,850.720	0.019	1.120	2.171	5.925	0.278	0.98621	

Table S3: Air Shots and Mass Discrimination Factor

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§7 Representative blank measurements

The blank measurements are undertaken with different temperatures schedule between 300°C and 1450°C, depending on the degassing behaviour and previous blank measurement results. The degassing and blank measurement procedure continues until the ratios of ^{40}Ar , ^{38}Ar and ^{36}Ar drop to atmospheric ratios, and ^{39}Ar and ^{37}Ar drop below detectable levels. The entire procedure of degassing and blank measurements is repeated at the end of a set of samples. Blanks will be done in-between samples that belong to a set, with reduced steps at 300°C, 1300°C and 1450°C to check isotope levels. In addition, the mass of each sample is calculated so that the volume of gas released from each step overwhelms the volume of gas that may occur in the blank. Table S4 is a representative sequence of measured blank values recorded during a monitoring process.

Temperature	^{40}Ar (fA)	^{39}Ar (fA)	^{38}Ar (fA)	^{37}Ar (fA)	^{36}Ar (fA)	$^{40}\text{Ar}/^{36}\text{Ar}$
300	23.003	0.241	0.061	ND	0.459	345.66
500	32.398	0.258	0.121	ND	0.465	365.19
700	28.016	0.249	0.121	ND	0.491	352.54
900	25.910	0.297	0.156	ND	0.529	344.49
1100	40.028	0.559	0.185	ND	0.883	340.86
1300	72.377	1.697	0.692	ND	3.549	315.90
1450	205.860	5.029	1.239	ND	6.070	329.42
300	16.830	0.133	0.023	ND	0.457	332.37
500	13.264	0.149	0.100	ND	0.522	320.93
700	19.596	0.239	0.085	ND	0.538	331.90
900	21.499	0.248	0.150	ND	0.553	334.37
1100	33.199	0.438	0.181	ND	0.903	332.29
1300	165.461	1.303	0.515	ND	2.624	358.57
1450	978.806	5.173	2.124	0.575	10.814	386.02
300	20.280	2.345	0.519	ND	0.690	324.92
500	0.602	2.484	0.717	ND	1.260	295.98
700	3.448	2.501	0.626	ND	0.867	299.48
900	27.434	2.532	0.593	ND	0.663	336.87
1100	38.888	2.552	1.943	ND	7.511	300.68
1300	95.268	2.709	4.624	ND	21.638	299.91
1450	131.870	3.094	5.001	ND	23.673	301.07
1300	145.309	9.587	6.772	1.554	25.921	301.11
1450	50.361	10.719	4.783	1.579	15.109	298.84

Table S4: Example of a blank measurement interspersed during measurement of a sequence of samples with isotopes were being monitored prior to sample analysis (* => Not Detectable). Temperature is °C.

A blank cannot be measured while the sample is still in the furnace, no matter whether a step-heating experiment is conducted using a furnace or with a crucible heated with a laser, so the question of 'inheritance' from heating step to heating step remains an open one. However, since each step is small, inheritance from the previous steps will merely smooth observed variations.

By undertaking many steps, we were able to routinely demonstrate that the experiment starts and ends with isotopic ratios typical of air, so we can assume that: i) the furnace has been cleaned by the end of the experiment; ii) inheritance between experiments is not greater than the blank.

Figure S4 has been included to make this point (shown below).

Note that small samples as suggested often yield variability and error because of their size.

Larger sample sizes guarantee a high signal to noise ratio once significant release of gas commences, so the furnace blanks become relatively low once significant release from the sample commences.

Such sample sizes also allow sufficient gas in each measurement step so as to be able to use 51 cycles of measurement to improve precision.

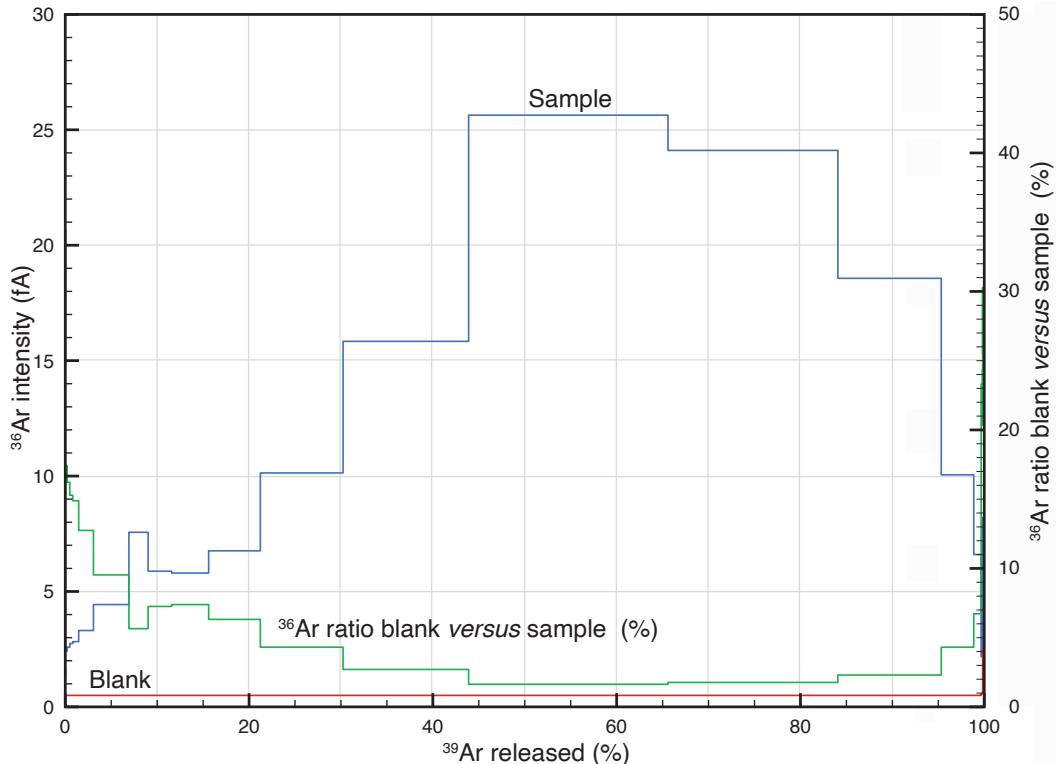


Figure S4: The overall release pattern ^{36}Ar during the release of the ^{39}Ar from % 0.0 to % 100.0 in sample A1. LHS Y-Axis shows the intensity of the ^{36}Ar abundances in each measured step of the sample (blue) and that of the furnace blank (red). The RHS Y-Axis shows the ratio percentage of the ^{36}Ar in the blank to the ^{36}Ar in the sample (green).

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§8 Data reduction and software utilised:

There are three stages involved, each stage requiring different software. Each measurement step involves 51 cycles of measurement undertaken by 5 individual Faraday Cups, one for each isotope as the intensities decline. The measured values in each cycle are extrapolated to time-zero, controlled by the ThermoFisher proprietary software (QTegra). This software works exclusively under MS Windows.

Agnes the argon robot comprises a linked system of automated valves in a dual gas extraction line, each with its own resistance furnace and a (45x) sample changer. Its robotic capabilities (designed in house at ANU) allow measurement to proceed for in excess of ninety days uninterrupted. The argon laboratory was thus one of very few laboratories at ANU that was allowed to remain open and to continue measurement throughout the lockdowns of the pandemic. The controller application ensures collection of the extrapolated values of all isotopes in each step and encapsulates this data together with all other required data as a Raw Data File. Note that some of this information is obtained by first mapping then accessing memory used by the QTegra program to allow runtime information to be seamlessly interrogated. The controller application is the mind of Agnes and operates under MS Windows.

The output Raw Data file is later used as input for the Agnes data reduction modules, with MacOS and MS Windows versions available. Agnes includes data about irradiation and age of the flux monitor to produce XML data tables that can be read by the *eArgon*, available for MacOS from the AppStore.

The Agnes data reduction modules are based on an adapted version of the *Noble* software (2016 version developed and adapted by Davood Vasegh). The data reduction was based on optimising MSWD (the mean square of weighted deviates) of isotope intensities with an exponential best fit methodology. The discrimination factor was calculated by analysing five air shots analysis on either side of sample analysis based on the assumed atmospheric $^{40}\text{Ar}/^{36}\text{Ar}$ ratio. The calculation of 1 amu was used for the discrimination factor. Isotopic data for the sample is supplied in the XML tables, including details of the heating schedule, isotope abundances and uncertainties for %Ar*, $^{40}\text{Ar}*/^{39}\text{Ar}(K)$, cumulative $^{39}\text{Ar}\%$, age and uncertainty, Ca/K, Cl/K, J-factor and J-factor uncertainty, noting that the fractional uncertainties are shown as stated in the XML output included below. Uncertainty levels of the calculated ages are reported at one sigma, though in *eArgon* plots a two sigma value is shown.

The new applications benefit from modern programming strategies while minor ambiguities in the legacy code (e.g., date/time calculations) have been remedied. The new code also provides more flexibility while working with the revised age calculation parameters. The output of the applications are XML tables that are compatible with the *eArgon* program used in our laboratory and with the capability of being altered for other applications as well. *Noble* itself is documented in McDougall and Harrison (1999), with the manual is available on the argon lab website <https://argon.anu.edu.au/>

Note that the *eArgon* program is a graphic analysis program with minimal mathematical additions to allow age recalculation, and regression and uncertainty calculations based on the data for selected steps in any of a number of different plots, for example as shown in the accompanying paper.

275 The reported data have been corrected for system backgrounds, mass discrimination, fluence gradients and atmospheric contamination. GA1550 standards were analysed, and an exponential best fit was then used for the calculation of the J-factor and J-factor uncertainty (Table S5).

Sample Name	J-Factor ± %uncertainty		Mass Discrimination Factor ± %uncertainty		Measurement Date
Purnama P-01	1.19537E-03	0.2420	0.9876946	0.152	16-Jul-2018
D3011643	1.19536E-03	0.2420	0.9876946	0.152	19-Jul-2018
D3150595	1.19534E-03	0.2420	0.9876946	0.152	21-Jul-2018
D3112423	1.19532E-03	0.2420	0.9876946	0.152	23-Jul-2018
D3078029	1.19531E-03	0.2420	0.9876946	0.152	25-Jul-2018
D3056884	1.19530E-03	0.2420	0.9876946	0.152	27-Jul-2018
D3067305	1.19528E-03	0.2420	0.9882968	0.098	29-Jul-2018
D3137821	1.19526E-03	0.2420	0.9882968	0.098	01-Aug-2018
D3035222	1.19525E-03	0.2420	0.9882968	0.098	03-Aug-2018
D3049860	1.19524E-03	0.2420	0.9882968	0.098	06-Aug-2018

Table S5: Sample J-Factor, Mass Discrimination, and Measurement Data. Samples in this study were irradiated on March 22, 2018

280 $^{40}\text{Ar}/^{39}\text{Ar}$ isotopic data of the samples are supplied in the Excel Data Tables, which include details on the heating schedule, Argon isotopes abundances and their uncertainty levels, %Ar*, $^{40}\text{Ar}^*/^{39}\text{Ar}(K)$, Cumulative $^{39}\text{Ar}\%$, calculated age and its uncertainty, Ca/K, Cl/K, J-Factor and its uncertainty. Noting that all the reported uncertainties are at one sigma level and the fractional uncertainties are shown as % in the headings of the appropriate columns of data tables. The components involved in the calculation of 285 the uncertainties have listed in Table S6.

Uncertainty of:	Components involved in the calculation
Isotope Abundances	Uncertainty of isotope measurement Uncertainty of Mass Discrimination Factor (except for ^{39}Ar)
J-Factor	Uncertainty of ^{40}K Decay Constant Uncertainty of Age of the Flux monitor Uncertainty of Flux monitor isotopes abundances
Calculated Age	Uncertainty of Isotope Abundances J-Factor value and uncertainty of J-Factor ^{40}K Decay Constant value and uncertainty of ^{40}K Decay Constant

Table S6: Components involved in the calculation of each uncertainty

290 §9 References:

- Forster, M.A. and Lister, G.S. 2009. Core-complex-related extension of the Aegean lithosphere initiated at the Eocene-Oligocene transition. *Journal Geophysical Research*, **114**, B02401.
- Kondev, F.G. and Naimi, S. 2017. The NUBASE2016 evaluation of nuclear properties. *Chinese physics C*, **41**(3), p.030001.
- McDougall, I., & Harrison, T.M. (Eds.). 1999. Geochronology and Thermochronology by the $^{40}\text{Ar}/^{39}\text{Ar}$ Method, 2nd ed., 269 pp. Oxford Univ. Press, New York.
- Nier, A.O., 1950. A redetermination of the relative abundances of the isotopes of carbon, nitrogen, oxygen, argon, and potassium. *Physical Review*, **77**(6), p.789.
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- Steiger, R. H., & E. Jager. 1977. Subcommission on geochronology: Convention on the use of decay constants in geo- and cosmochronology. *Earth Planetary Science Letters*, **36**, 359–362.
- Tetley, N., McDougall, I. & Heydegger, H. R. 1980. Thermal neutron interferences in the $^{40}\text{Ar}/^{39}\text{Ar}$ dating technique. *Journal Geophysical Research*, **85**, 7201–7205.

§10 XML data output from *eArgon*

```
<?xml version="1.0" encoding="UTF-8"?>
310 <eArgon>
    <eArgonDataObject>
        <ArgonData>
            <SampleDescription>ANU CAN #30, PURNAMA P-01, Foil: A1, Alunite, 85.9mg, Steps: 35</SampleDescription>
            <StepData>
                <StepNumber>0</StepNumber>
                <FurnaceTemperature_DegreesCelsius>450.000</FurnaceTemperature_DegreesCelsius>
                <Duration_minutes>15.000</Duration_minutes>
                <Isotope id="Ar36" value="8.50889e-17" error="3.31e0"></Isotope>
                <Isotope id="Ar37" value="1.8353e-17" error="5.006e1"></Isotope>
                <Isotope id="Ar38" value="1.8872e-17" error="1.82e1"></Isotope>
                <Isotope id="Ar39" value="5.77889e-17" error="2.47e0"></Isotope>
                <Isotope id="Ar40" value="2.67834e-14" error="2.47e0"></Isotope>
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                <Isotope id="Ar39_correctedForIsotopeInterference" value="5.77889e-17" error="2.47e0"></Isotope>
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                <percentage_radiogenic_argon>6.110</percentage_radiogenic_argon>
                <IsotopeRatio id="Ar40_Ar39" value="4.6346962825e2" error="0.0e0"></IsotopeRatio>
                <IsotopeRatio id="radiogenicAr40_Ar39" value="2.83e1" error="0.0e0"></IsotopeRatio>
                <cumulated_percentage_Ar39_released>0.000</cumulated_percentage_Ar39_released>
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<IsotopeRatio id="radiogenicAr40_Ar39" value="9.131e-1" error="0.0e0"></IsotopeRatio>
<cumulated_percentage_Ar39_released>44.000</cumulated_percentage_Ar39_released>
<MeasuredAge value="1.968" stddev="0.051"></MeasuredAge>
<RecalculatedAge>1.968</RecalculatedAge>
<IsotopeRatio id="Ca_K" value="1.15e-1" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Cl_K" value="8.83e-2" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="1.42631913124e-3" error="5.36295993345e-5"></IsotopeRatio>
<IsotopeRatio id="Ar39_Ar40" value="6.33469535109e-1" error="8.10841004939e-3"></IsotopeRatio>
</StepData>

```

815

```

<StepData>
    <StepNumber>22</StepNumber>
    <FurnaceTemperature_DegreesCelsius>780.000</FurnaceTemperature_DegreesCelsius>
    <Duration_minutes>15.000</Duration_minutes>

```

820

```

    <Isotope id="Ar36" value="1.84784e-15" error="2.45e0"></Isotope>
    <Isotope id="Ar37" value="4.7952e-14" error="1.029e1"></Isotope>
    <Isotope id="Ar38" value="1.5063e-14" error="4.78e0"></Isotope>
    <Isotope id="Ar39" value="7.91203e-13" error="4.9e-1"></Isotope>
    <Isotope id="Ar40" value="1.27577e-12" error="7.5e-1"></Isotope>
    <Isotope id="Ar36_correctedForIsotopeInterference" value="1.84784e-15" error="2.45e0"></Isotope>
    <Isotope id="Ar39_correctedForIsotopeInterference" value="7.91203e-13" error="4.9e-1"></Isotope>
    <Isotope id="Ar40_correctedForIsotopeInterference" value="1.27577e-12" error="7.5e-1"></Isotope>

```

825

```

    <percentage_radiogenic_argon>56.030</percentage_radiogenic_argon>
    <IsotopeRatio id="Ar40_Ar39" value="1.61244332997e0" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="radiogenicAr40_Ar39" value="9.222e-1" error="0.0e0"></IsotopeRatio>
    <cumulated_percentage_Ar39_released>65.700</cumulated_percentage_Ar39_released>

```

830

```

    <MeasuredAge value="1.988" stddev="0.046"></MeasuredAge>
    <RecalculatedAge>1.988</RecalculatedAge>

```

835

```

    <IsotopeRatio id="Ca_K" value="1.15e-1" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="Cl_K" value="8.91e-2" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="Ar36_Ar40" value="1.44841154754e-3" error="4.63491695212e-5"></IsotopeRatio>
    <IsotopeRatio id="Ar39_Ar40" value="6.20176834382e-1" error="7.69019274634e-3"></IsotopeRatio>

```

840

```

</StepData>
<StepData>
    <StepNumber>23</StepNumber>
    <FurnaceTemperature_DegreesCelsius>800.000</FurnaceTemperature_DegreesCelsius>
    <Duration_minutes>15.000</Duration_minutes>

```

845

```

    <Isotope id="Ar36" value="1.73385e-15" error="2.78e0"></Isotope>
    <Isotope id="Ar37" value="5.3253e-14" error="1.07e1"></Isotope>
    <Isotope id="Ar38" value="1.4416e-14" error="5.84e0"></Isotope>
    <Isotope id="Ar39" value="6.70815e-13" error="5.9e-1"></Isotope>
    <Isotope id="Ar40" value="1.12405e-12" error="1.03e0"></Isotope>
    <Isotope id="Ar36_correctedForIsotopeInterference" value="1.73385e-15" error="2.78e0"></Isotope>
    <Isotope id="Ar39_correctedForIsotopeInterference" value="6.70815e-13" error="5.9e-1"></Isotope>
    <Isotope id="Ar40_correctedForIsotopeInterference" value="1.12405e-12" error="1.03e0"></Isotope>

```

850

```

    <percentage_radiogenic_argon>53.350</percentage_radiogenic_argon>
    <IsotopeRatio id="Ar40_Ar39" value="1.67564827859e0" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="radiogenicAr40_Ar39" value="9.117e-1" error="0.0e0"></IsotopeRatio>
    <cumulated_percentage_Ar39_released>84.100</cumulated_percentage_Ar39_released>

```

855

```

    <MeasuredAge value="1.965" stddev="0.060"></MeasuredAge>
    <RecalculatedAge>1.965</RecalculatedAge>

```

860

```

    <IsotopeRatio id="Ca_K" value="1.51e-1" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="Cl_K" value="1.19e-1" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="Ar36_Ar40" value="1.54250255772e-3" error="5.8769347449e-5"></IsotopeRatio>
    <IsotopeRatio id="Ar39_Ar40" value="5.96783950892e-1" error="9.66790000445e-3"></IsotopeRatio>

```

865

```

</StepData>
<StepData>
    <StepNumber>24</StepNumber>
    <FurnaceTemperature_DegreesCelsius>820.000</FurnaceTemperature_DegreesCelsius>
    <Duration_minutes>15.000</Duration_minutes>

```

870

```

    <Isotope id="Ar36" value="1.32361e-15" error="3.76e0"></Isotope>
    <Isotope id="Ar37" value="4.5829e-14" error="1.189e1"></Isotope>
    <Isotope id="Ar38" value="1.0468e-14" error="7.53e0"></Isotope>

```

```

<Isotope id="Ar39" value="4.09096e-13" error="8.3e-1"></Isotope>
<Isotope id="Ar40" value="7.41613e-13" error="1.32e0"></Isotope>
<Isotope id="Ar36_correctedForIsotopeInterference" value="1.32361e-15" error="3.76e0"></Isotope>
<Isotope id="Ar39_correctedForIsotopeInterference" value="4.09096e-13" error="8.3e-1"></Isotope>
<Isotope id="Ar40_correctedForIsotopeInterference" value="7.41613e-13" error="1.32e0"></Isotope>
<percentage_radiogenic_argon>46.390</percentage_radiogenic_argon>
875 <IsotopeRatio id="Ar40_Ar39" value="1.81280921837e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="radiogenicAr40_Ar39" value="8.566e-1" error="0.0e0"></IsotopeRatio>
<cumulated_percentage_Ar39_released>95.320</cumulated_percentage_Ar39_released>
<MeasuredAge value="1.846" stddev="0.094"></MeasuredAge>
880 <RecalculatedAge>1.846</RecalculatedAge>
<IsotopeRatio id="Ca_K" value="2.13e-1" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Cl_K" value="1.67e-1" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="1.78477184192e-3" error="9.06664095694e-5"></IsotopeRatio>
885 <IsotopeRatio id="Ar39_Ar40" value="5.5163002806e-1" error="1.18600456033e-2"></IsotopeRatio>
</StepData>
<StepData>
890 <StepNumber>25</StepNumber>
<FurnaceTemperature_DegreesCelsius>840.000</FurnaceTemperature_DegreesCelsius>
<Duration_minutes>15.000</Duration_minutes>
<Isotope id="Ar36" value="7.00772e-16" error="5.52e0"></Isotope>
<Isotope id="Ar37" value="2.6691e-14" error="1.334e1"></Isotope>
895 <Isotope id="Ar38" value="4.8949e-15" error="1.019e1"></Isotope>
<Isotope id="Ar39" value="1.30243e-13" error="1.42e0"></Isotope>
<Isotope id="Ar40" value="2.9127e-13" error="1.89e0"></Isotope>
<Isotope id="Ar36_correctedForIsotopeInterference" value="7.00772e-16" error="5.52e0"></Isotope>
<Isotope id="Ar39_correctedForIsotopeInterference" value="1.30243e-13" error="1.42e0"></Isotope>
900 <Isotope id="Ar40_correctedForIsotopeInterference" value="2.9127e-13" error="1.89e0"></Isotope>
<percentage_radiogenic_argon>28.470</percentage_radiogenic_argon>
<IsotopeRatio id="Ar40_Ar39" value="2.23635819199e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="radiogenicAr40_Ar39" value="6.462e-1" error="0.0e0"></IsotopeRatio>
<cumulated_percentage_Ar39_released>98.900</cumulated_percentage_Ar39_released>
905 <MeasuredAge value="1.393" stddev="0.213"></MeasuredAge>
<RecalculatedAge>1.393</RecalculatedAge>
<IsotopeRatio id="Ca_K" value="3.89e-1" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Cl_K" value="3.09e-1" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="2.40591890686e-3" error="1.78278590998e-4"></IsotopeRatio>
910 <IsotopeRatio id="Ar39_Ar40" value="4.47155560133e-1" error="1.48008490404e-2"></IsotopeRatio>
</StepData>
<StepData>
915 <StepNumber>26</StepNumber>
<FurnaceTemperature_DegreesCelsius>860.000</FurnaceTemperature_DegreesCelsius>
<Duration_minutes>15.000</Duration_minutes>
<Isotope id="Ar36" value="4.43545e-16" error="6.13e0"></Isotope>
<Isotope id="Ar37" value="1.51e-14" error="1.446e1"></Isotope>
<Isotope id="Ar38" value="2.3965e-15" error="1.307e1"></Isotope>
920 <Isotope id="Ar39" value="2.89753e-14" error="3.23e0"></Isotope>
<Isotope id="Ar40" value="1.28558e-13" error="3.51e0"></Isotope>
<Isotope id="Ar36_correctedForIsotopeInterference" value="4.43545e-16" error="6.13e0"></Isotope>
<Isotope id="Ar39_correctedForIsotopeInterference" value="2.89753e-14" error="3.23e0"></Isotope>
<Isotope id="Ar40_correctedForIsotopeInterference" value="1.28558e-13" error="3.51e0"></Isotope>
925 <percentage_radiogenic_argon>0.010</percentage_radiogenic_argon>
<IsotopeRatio id="Ar40_Ar39" value="4.43681342385e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
<cumulated_percentage_Ar39_released>99.690</cumulated_percentage_Ar39_released>
<MeasuredAge value="0.002" stddev="0.694"></MeasuredAge>
930 <RecalculatedAge>0.002</RecalculatedAge>
<IsotopeRatio id="Ca_K" value="9.9e-1" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Cl_K" value="8.39e-1" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="3.45015479395e-3" error="3.32594922136e-4"></IsotopeRatio>
<IsotopeRatio id="Ar39_Ar40" value="2.25386984863e-1" error="1.51910827798e-2"></IsotopeRatio>
935 </StepData>
<StepData>

```

```

<StepNumber>27</StepNumber>
<FurnaceTemperature_DegreesCelsius>880.000</FurnaceTemperature_DegreesCelsius>
<Duration_minutes>15.000</Duration_minutes>
<Isotope id="Ar36" value="1.32858e-16" error="8.01e0"></Isotope>
<Isotope id="Ar37" value="2.5559e-15" error="1.435e1"></Isotope>
<Isotope id="Ar38" value="3.6695e-16" error="1.459e1"></Isotope>
<Isotope id="Ar39" value="1.60622e-15" error="7.46e0"></Isotope>
<Isotope id="Ar40" value="3.72175e-14" error="7.48e0"></Isotope>
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<Isotope id="Ar39_correctedForIsotopeInterference" value="1.60622e-15" error="7.46e0"></Isotope>
<Isotope id="Ar40_correctedForIsotopeInterference" value="3.72175e-14" error="7.48e0"></Isotope>
<percentage_radiogenic_argon>0.010</percentage_radiogenic_argon>
<IsotopeRatio id="Ar40_Ar39" value="2.31708607787e1" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
<cumulated_percentage_Ar39_released>99.740</cumulated_percentage_Ar39_released>
<MeasuredAge value="0.002" stddev="5.658"></MeasuredAge>
<RecalculatedAge>0.002</RecalculatedAge>
<IsotopeRatio id="Ca_K" value="3.02e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Cl_K" value="2.47e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="3.56977228454e-3" error="5.52957726876e-4"></IsotopeRatio>
<IsotopeRatio id="Ar39_Ar40" value="4.31576543293e-2" error="6.44775355679e-3"></IsotopeRatio>
</StepData>
<StepData>
    <StepNumber>28</StepNumber>
    <FurnaceTemperature_DegreesCelsius>900.000</FurnaceTemperature_DegreesCelsius>
    <Duration_minutes>15.000</Duration_minutes>
    <Isotope id="Ar36" value="1.29799e-16" error="9.27e0"></Isotope>
    <Isotope id="Ar37" value="2.4647e-15" error="1.553e1"></Isotope>
    <Isotope id="Ar38" value="3.4373e-16" error="1.582e1"></Isotope>
    <Isotope id="Ar39" value="1.38462e-15" error="8.69e0"></Isotope>
    <Isotope id="Ar40" value="3.59883e-14" error="8.71e0"></Isotope>
    <Isotope id="Ar36_correctedForIsotopeInterference" value="1.29799e-16" error="9.27e0"></Isotope>
    <Isotope id="Ar39_correctedForIsotopeInterference" value="1.38462e-15" error="8.69e0"></Isotope>
    <Isotope id="Ar40_correctedForIsotopeInterference" value="3.59883e-14" error="8.71e0"></Isotope>
    <percentage_radiogenic_argon>0.010</percentage_radiogenic_argon>
    <IsotopeRatio id="Ar40_Ar39" value="2.59914633618e1" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
    <cumulated_percentage_Ar39_released>99.780</cumulated_percentage_Ar39_released>
    <MeasuredAge value="0.002" stddev="7.405"></MeasuredAge>
    <RecalculatedAge>0.002</RecalculatedAge>
    <IsotopeRatio id="Ca_K" value="3.38e0" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="Cl_K" value="2.68e0" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="Ar36_Ar40" value="3.60669995526e-3" error="6.48484651956e-4"></IsotopeRatio>
    <IsotopeRatio id="Ar39_Ar40" value="3.84741707722e-2" error="6.69450571436e-3"></IsotopeRatio>
</StepData>
<StepData>
    <StepNumber>29</StepNumber>
    <FurnaceTemperature_DegreesCelsius>950.000</FurnaceTemperature_DegreesCelsius>
    <Duration_minutes>15.000</Duration_minutes>
    <Isotope id="Ar36" value="1.15579e-16" error="9.17e0"></Isotope>
    <Isotope id="Ar37" value="2.3566e-15" error="1.476e1"></Isotope>
    <Isotope id="Ar38" value="3.3183e-16" error="1.521e1"></Isotope>
    <Isotope id="Ar39" value="1.36435e-15" error="8.35e0"></Isotope>
    <Isotope id="Ar40" value="3.21794e-14" error="8.38e0"></Isotope>
    <Isotope id="Ar36_correctedForIsotopeInterference" value="1.15579e-16" error="9.17e0"></Isotope>
    <Isotope id="Ar39_correctedForIsotopeInterference" value="1.36435e-15" error="8.35e0"></Isotope>
    <Isotope id="Ar40_correctedForIsotopeInterference" value="3.21794e-14" error="8.38e0"></Isotope>
    <percentage_radiogenic_argon>0.010</percentage_radiogenic_argon>
    <IsotopeRatio id="Ar40_Ar39" value="2.35858833877e1" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
    <cumulated_percentage_Ar39_released>99.810</cumulated_percentage_Ar39_released>
    <MeasuredAge value="0.002" stddev="6.556"></MeasuredAge>
    <RecalculatedAge>0.002</RecalculatedAge>

```

```

000
<IsotopeRatio id="Ca_K" value="3.28e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Cl_K" value="2.64e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="3.59170773849e-3" error="6.30344708105e-4"></IsotopeRatio>
<IsotopeRatio id="Ar39_Ar40" value="4.23982423538e-2" error="7.09322594579e-3"></IsotopeRatio>
</StepData>
005
<StepData>
<StepNumber>30</StepNumber>
<FurnaceTemperature_DegreesCelsius>1000.000</FurnaceTemperature_DegreesCelsius>
<Duration_minutes>15.000</Duration_minutes>
<Isotope id="Ar36" value="1.23892e-16" error="9.09e0"></Isotope>
<Isotope id="Ar37" value="2.3119e-15" error="1.539e1"></Isotope>
<Isotope id="Ar38" value="3.1578e-16" error="1.508e1"></Isotope>
<Isotope id="Ar39" value="1.25196e-15" error="8.67e0"></Isotope>
<Isotope id="Ar40" value="3.41097e-14" error="8.69e0"></Isotope>
<Isotope id="Ar36_correctedForIsotopeInterference" value="1.23892e-16" error="9.09e0"></Isotope>
<Isotope id="Ar39_correctedForIsotopeInterference" value="1.25196e-15" error="8.67e0"></Isotope>
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<IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
<cumulated_percentage_Ar39_released>99.850</cumulated_percentage_Ar39_released>
020
<MeasuredAge value="0.002" stddev="7.698"></MeasuredAge>
<RecalculatedAge>0.002</RecalculatedAge>
<IsotopeRatio id="Ca_K" value="3.51e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Cl_K" value="2.72e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="3.63216328493e-3" error="6.45798632061e-4"></IsotopeRatio>
<IsotopeRatio id="Ar39_Ar40" value="3.67039287944e-2" error="6.37180203872e-3"></IsotopeRatio>
</StepData>
025
<StepData>
<StepNumber>31</StepNumber>
<FurnaceTemperature_DegreesCelsius>1100.000</FurnaceTemperature_DegreesCelsius>
<Duration_minutes>15.000</Duration_minutes>
<Isotope id="Ar36" value="1.96736e-16" error="8.24e0"></Isotope>
<Isotope id="Ar37" value="1.9666e-15" error="1.578e1"></Isotope>
<Isotope id="Ar38" value="2.994e-16" error="1.404e1"></Isotope>
<Isotope id="Ar39" value="1.20073e-15" error="8.1e0"></Isotope>
<Isotope id="Ar40" value="5.85415e-14" error="8.1e0"></Isotope>
<Isotope id="Ar36_correctedForIsotopeInterference" value="1.96736e-16" error="8.24e0"></Isotope>
<Isotope id="Ar39_correctedForIsotopeInterference" value="1.20073e-15" error="8.1e0"></Isotope>
<Isotope id="Ar40_correctedForIsotopeInterference" value="5.85415e-14" error="8.1e0"></Isotope>
<percentage_radiogenic_argon>0.680</percentage_radiogenic_argon>
030
<IsotopeRatio id="Ar40_Ar39" value="4.87549240878e1" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="radiogenicAr40_Ar39" value="3.301e-1" error="0.0e0"></IsotopeRatio>
<cumulated_percentage_Ar39_released>99.880</cumulated_percentage_Ar39_released>
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<RecalculatedAge>0.712</RecalculatedAge>
035
<IsotopeRatio id="Ca_K" value="3.11e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Cl_K" value="2.53e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="3.36062451423e-3" error="5.49126045626e-4"></IsotopeRatio>
<IsotopeRatio id="Ar39_Ar40" value="2.0510748785e-2" error="3.32274130318e-3"></IsotopeRatio>
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040
<StepData>
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<Duration_minutes>15.000</Duration_minutes>
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<Isotope id="Ar37" value="1.8634e-15" error="1.395e1"></Isotope>
<Isotope id="Ar38" value="2.7319e-16" error="1.325e1"></Isotope>
<Isotope id="Ar39" value="1.15584e-15" error="7.53e0"></Isotope>
<Isotope id="Ar40" value="6.57212e-14" error="7.53e0"></Isotope>
<Isotope id="Ar36_correctedForIsotopeInterference" value="2.17455e-16" error="7.67e0"></Isotope>
<Isotope id="Ar39_correctedForIsotopeInterference" value="1.15584e-15" error="7.53e0"></Isotope>
<Isotope id="Ar40_correctedForIsotopeInterference" value="6.57212e-14" error="7.53e0"></Isotope>
045
</StepData>
050
<StepData>
<StepNumber>33</StepNumber>
<FurnaceTemperature_DegreesCelsius>1300.000</FurnaceTemperature_DegreesCelsius>
<Duration_minutes>15.000</Duration_minutes>
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<Isotope id="Ar38" value="2.7319e-16" error="1.325e1"></Isotope>
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<Isotope id="Ar40" value="6.57212e-14" error="7.53e0"></Isotope>
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460   <Isotope id="Ar38" value="3.2897e-16" error="1.327e1"></Isotope>
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290    <IsotopeRatio id="Cl_K" value="1.02e0" error="0.0e0"></IsotopeRatio>
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330

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665 <IsotopeRatio id="radiogenicAr40_Ar39" value="1.188e0" error="0.0e0"></IsotopeRatio>
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670 <IsotopeRatio id="Ar36_Ar40" value="2.01852776474e-3" error="4.84446663537e-5"></IsotopeRatio>
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685 <percentage_radiogenic_argon>44.770</percentage_radiogenic_argon>
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140
145

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420 <Isotope id="Ar39" value="1.35185e-13" error="4.5e-1"></Isotope>
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445 <Isotope id="Ar40" value="6.34339e-13" error="4.1e-1"></Isotope>
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450 <IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
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    <Isotope id="Ar38" value="4.8667e-15" error="4.75e0"></Isotope>
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    <Isotope id="Ar40" value="7.82416e-13" error="6.0e-1"></Isotope>
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    <Isotope id="Ar38" value="4.9426e-15" error="5.31e0"></Isotope>
    <Isotope id="Ar39" value="2.44691e-13" error="6.2e-1"></Isotope>
    <Isotope id="Ar40" value="7.08421e-13" error="6.7e-1"></Isotope>
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    <Isotope id="Ar38" value="1.6179e-15" error="6.48e0"></Isotope>
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    <Isotope id="Ar40" value="1.66842e-13" error="9.3e-1"></Isotope>
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    <Isotope id="Ar37" value="5.0621e-15" error="1.551e1"></Isotope>
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<Isotope id="Ar40" value="3.25729e-14" error="5.87e0"></Isotope>
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680 <Isotope id="Ar40" value="4.33302e-14" error="5.11e0"></Isotope>
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710 <Isotope id="Ar40" value="6.0006e-14" error="5.11e0"></Isotope>
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730 <Isotope id="Ar40" value="4.83198e-14" error="4.24e0"></Isotope>
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  <Isotope id="Ar38" value="2.5407e-17" error="9.97e0"></Isotope>
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  <Isotope id="Ar40" value="1.71427e-14" error="5.44e0"></Isotope>
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905

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910

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915

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920

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925

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<Isotope id="Ar39" value="7.87815e-17" error="4.38e0"></Isotope>
<Isotope id="Ar40" value="3.08332e-14" error="4.38e0"></Isotope>
<Isotope id="Ar36_correctedForIsotopeInterference" value="1.04558e-16" error="4.61e0"></Isotope>
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```

930

```
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<IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
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```

935

```
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<IsotopeRatio id="Cl_K" value="2.53e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="3.39108493442e-3" error="3.0486583863e-4"></IsotopeRatio>
<IsotopeRatio id="Ar39_Ar40" value="2.5550867247e-3" error="2.23857828512e-4"></IsotopeRatio>

```

940

```
</StepData>
```

945

```
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```

950

```
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<Isotope id="Ar37" value="2.3983e-17" error="5.017e1"></Isotope>
<Isotope id="Ar38" value="3.904e-17" error="5.78e0"></Isotope>
<Isotope id="Ar39" value="8.83397e-17" error="4.15e0"></Isotope>
<Isotope id="Ar40" value="3.88944e-14" error="4.15e0"></Isotope>
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```

955

```
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```

960

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<IsotopeRatio id="Ar39_Ar40" value="2.27127041425e-3" error="1.88544026532e-4"></IsotopeRatio>

```

965

```
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970

```
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```

975

```
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```

```

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<Isotope id="Ar39" value="8.86364e-17" error="4.36e0"></Isotope>
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010 <Isotope id="Ar37" value="2.4022e-17" error="5.007e1"></Isotope>
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<Isotope id="Ar40" value="4.66468e-14" error="2.63e0"></Isotope>
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030

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    <Isotope id="Ar37" value="2.4035e-17" error="5.003e1"></Isotope>
    <Isotope id="Ar38" value="4.8781e-17" error="7.36e0"></Isotope>
    <Isotope id="Ar39" value="1.79707e-16" error="1.75e0"></Isotope>
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    <IsotopeRatio id="radiogenicAr40_Ar39" value="8.12e0" error="0.0e0"></IsotopeRatio>
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    <Isotope id="Ar40" value="5.01098e-14" error="1.19e0"></Isotope>
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    <IsotopeRatio id="Cl_K" value="6.17e-1" error="0.0e0"></IsotopeRatio>
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    <Isotope id="Ar39" value="8.41343e-16" error="8.5e-1"></Isotope>
    <Isotope id="Ar40" value="4.69609e-14" error="8.6e-1"></Isotope>
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    <IsotopeRatio id="radiogenicAr40_Ar39" value="2.3e0" error="0.0e0"></IsotopeRatio>
    <cumulated_percentage_Ar39_released>0.310</cumulated_percentage_Ar39_released>

```

```

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100   </StepData>
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        <Isotope id="Ar40" value="4.81311e-14" error="8.1e-1"></Isotope>
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950
955
960
965
970
975

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<IsotopeRatio id="Cl_K" value="1.47e-1" error="0.0e0"></IsotopeRatio>
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  <Isotope id="Ar40" value="2.0157e-13" error="2.84e0"></Isotope>
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  <Isotope id="Ar39_correctedForIsotopeInterference" value="5.57054e-14" error="2.45e0"></Isotope>
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    <Isotope id="Ar39_correctedForIsotopeInterference" value="5.97132e-15" error="8.45e0"></Isotope>
    <Isotope id="Ar40_correctedForIsotopeInterference" value="7.26235e-14" error="8.6e0"></Isotope>
    <percentage_radiogenic_argon>0.010</percentage_radiogenic_argon>

```

185

```

    <IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
    <cumulated_percentage_Ar39_released>99.600</cumulated_percentage_Ar39_released>
    <MeasuredAge value="0.002" stddev="3.636"></MeasuredAge>
    <RecalculatedAge>0.002</RecalculatedAge>

```

190

```

    <IsotopeRatio id="Ca_K" value="3.38e0" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="Cl_K" value="2.15e0" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="Ar36_Ar40" value="3.90862461875e-3" error="7.06989042074e-4"></IsotopeRatio>
    <IsotopeRatio id="Ar39_Ar40" value="8.2222971903e-2" error="1.40000391354e-2"></IsotopeRatio>

```

```
</StepData>
```

195

```

<StepData>
    <StepNumber>27</StepNumber>
    <FurnaceTemperature_DegreesCelsius>1050.000</FurnaceTemperature_DegreesCelsius>
    <Duration_minutes>15.000</Duration_minutes>

```

200

```

    <Isotope id="Ar36" value="3.135e-16" error="8.6e0"></Isotope>
    <Isotope id="Ar37" value="8.6474e-15" error="1.576e1"></Isotope>
    <Isotope id="Ar38" value="9.7748e-16" error="1.497e1"></Isotope>
    <Isotope id="Ar39" value="4.95829e-15" error="8.17e0"></Isotope>
    <Isotope id="Ar40" value="8.37891e-14" error="8.25e0"></Isotope>

```

205

```

    <Isotope id="Ar36_correctedForIsotopeInterference" value="3.135e-16" error="8.6e0"></Isotope>
    <Isotope id="Ar39_correctedForIsotopeInterference" value="4.95829e-15" error="8.17e0"></Isotope>
    <Isotope id="Ar40_correctedForIsotopeInterference" value="8.37891e-14" error="8.25e0"></Isotope>
    <percentage_radiogenic_argon>0.010</percentage_radiogenic_argon>

```

210

```

    <IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
    <cumulated_percentage_Ar39_released>99.700</cumulated_percentage_Ar39_released>
    <MeasuredAge value="0.002" stddev="4.611"></MeasuredAge>
    <RecalculatedAge>0.002</RecalculatedAge>

```

215

```

    <IsotopeRatio id="Ca_K" value="3.31e0" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="Cl_K" value="2.13e0" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="Ar36_Ar40" value="3.741536787e-3" error="6.35364719195e-4"></IsotopeRatio>
    <IsotopeRatio id="Ar39_Ar40" value="5.91758355204e-2" error="9.71079054255e-3"></IsotopeRatio>

```

```
</StepData>
```

220

```

<StepData>
    <StepNumber>28</StepNumber>
    <FurnaceTemperature_DegreesCelsius>1100.000</FurnaceTemperature_DegreesCelsius>
    <Duration_minutes>15.000</Duration_minutes>

```

225

```

    <Isotope id="Ar36" value="4.25558e-16" error="8.2e0"></Isotope>
    <Isotope id="Ar37" value="7.5773e-15" error="1.522e1"></Isotope>
    <Isotope id="Ar38" value="8.5264e-16" error="1.459e1"></Isotope>
    <Isotope id="Ar39" value="4.30666e-15" error="7.98e0"></Isotope>
    <Isotope id="Ar40" value="1.1904e-13" error="8.0e0"></Isotope>

```

```

    <Isotope id="Ar36_correctedForIsotopeInterference" value="4.25558e-16" error="8.2e0"></Isotope>
    <Isotope id="Ar39_correctedForIsotopeInterference" value="4.30666e-15" error="7.98e0"></Isotope>

```

```

<Isotope id="Ar40_correctedForIsotopeInterference" value="1.1904e-13" error="8.0e0"></Isotope>
230 <percentage_radiogenic_argon>0.010</percentage_radiogenic_argon>
<IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
<cumulated_percentage_Ar39_released>99.780</cumulated_percentage_Ar39_released>
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<RecalculatedAge>0.002</RecalculatedAge>
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<IsotopeRatio id="Cl_K" value="2.05e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="3.57491599462e-3" error="5.82101694915e-4"></IsotopeRatio>
<IsotopeRatio id="Ar39_Ar40" value="3.61782594086e-2" error="5.78259322034e-3"></IsotopeRatio>
</StepData>
240 <StepData>
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    <FurnaceTemperature_DegreesCelsius>1200.000</FurnaceTemperature_DegreesCelsius>
    <Duration_minutes>15.000</Duration_minutes>
    <Isotope id="Ar36" value="9.73365e-16" error="7.52e0"></Isotope>
245 <Isotope id="Ar37" value="6.5024e-15" error="1.536e1"></Isotope>
<Isotope id="Ar38" value="8.4023e-16" error="1.242e1"></Isotope>
<Isotope id="Ar39" value="3.94603e-15" error="7.46e0"></Isotope>
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<Isotope id="Ar36_correctedForIsotopeInterference" value="9.73365e-16" error="7.52e0"></Isotope>
250 <Isotope id="Ar39_correctedForIsotopeInterference" value="3.94603e-15" error="7.46e0"></Isotope>
<Isotope id="Ar40_correctedForIsotopeInterference" value="2.83622e-13" error="7.46e0"></Isotope>
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<IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
255 <cumulated_percentage_Ar39_released>99.850</cumulated_percentage_Ar39_released>
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<IsotopeRatio id="Cl_K" value="1.89e0" error="0.0e0"></IsotopeRatio>
260 <IsotopeRatio id="Ar36_Ar40" value="3.43190937233e-3" error="5.15079711013e-4"></IsotopeRatio>
<IsotopeRatio id="Ar39_Ar40" value="1.39129898245e-2" error="2.07760014097e-3"></IsotopeRatio>
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265 <Duration_minutes>15.000</Duration_minutes>
    <Isotope id="Ar36" value="1.58404e-15" error="6.94e0"></Isotope>
    <Isotope id="Ar37" value="5.6342e-15" error="1.489e1"></Isotope>
    <Isotope id="Ar38" value="8.6695e-16" error="1.063e1"></Isotope>
    <Isotope id="Ar39" value="3.65871e-15" error="6.91e0"></Isotope>
    <Isotope id="Ar40" value="4.64222e-13" error="6.91e0"></Isotope>
    <Isotope id="Ar36_correctedForIsotopeInterference" value="1.58404e-15" error="6.94e0"></Isotope>
    <Isotope id="Ar39_correctedForIsotopeInterference" value="3.65871e-15" error="6.91e0"></Isotope>
    <Isotope id="Ar40_correctedForIsotopeInterference" value="4.64222e-13" error="6.91e0"></Isotope>
270 <percentage_radiogenic_argon>0.010</percentage_radiogenic_argon>
    <IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
    <IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
    <cumulated_percentage_Ar39_released>99.920</cumulated_percentage_Ar39_released>
    <MeasuredAge value="0.002" stddev="26.906"></MeasuredAge>
    <RecalculatedAge>0.002</RecalculatedAge>
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    <IsotopeRatio id="Cl_K" value="1.75e0" error="0.0e0"></IsotopeRatio>
275 <IsotopeRatio id="Ar36_Ar40" value="3.41224672678e-3" error="4.73060688289e-4"></IsotopeRatio>
    <IsotopeRatio id="Ar39_Ar40" value="7.88138002938e-3" error="1.09026627041e-3"></IsotopeRatio>
    </StepData>
    <StepData>
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        <Duration_minutes>15.000</Duration_minutes>
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<Isotope id="Ar37" value="5.1033e-15" error="1.368e1"></Isotope>
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<Isotope id="Ar39" value="4.30133e-15" error="5.21e0"></Isotope>
295 <Isotope id="Ar40" value="5.22019e-13" error="5.21e0"></Isotope>
<Isotope id="Ar36_correctedForIsotopeInterference" value="1.73536e-15" error="5.24e0"></Isotope>
<Isotope id="Ar39_correctedForIsotopeInterference" value="4.30133e-15" error="5.21e0"></Isotope>
<Isotope id="Ar40_correctedForIsotopeInterference" value="5.22019e-13" error="5.21e0"></Isotope>
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<RecalculatedAge>4.573</RecalculatedAge>
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305 <IsotopeRatio id="Cl_K" value="1.35e0" error="0.0e0"></IsotopeRatio>
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    <Parameter id="FluxMonitorAge" value="98.50" uncertainty="0.80" />
    <Parameter id="MassDiscrimination" value="0.98769" uncertainty="0.15" />
    <Parameter id="Atmospheric_40_36_ratio" value="2.9555e2"></Parameter>
    <Parameter id="DecayConstantK" value="5.543e-10" uncertainty="0.192"></Parameter>
315 </CalculationParameters>
</ArgonData>
</eArgonDataObject>
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320     <SampleDescription>ANU CAN #30, D3035222, Foil: A9, Alunite, 122.9mg, Steps: 32</SampleDescription>
     <StepData>
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325     <Isotope id="Ar36" value="5.50453e-17" error="5.97e0"></Isotope>
     <Isotope id="Ar37" value="2.6367e-17" error="5.025e1"></Isotope>
     <Isotope id="Ar38" value="5.3899e-17" error="1.034e1"></Isotope>
     <Isotope id="Ar39" value="2.33135e-16" error="4.99e0"></Isotope>
330     <Isotope id="Ar40" value="1.70395e-14" error="5.01e0"></Isotope>
     <Isotope id="Ar36_correctedForIsotopeInterference" value="5.50453e-17" error="5.97e0"></Isotope>
     <Isotope id="Ar39_correctedForIsotopeInterference" value="2.33135e-16" error="4.99e0"></Isotope>
     <Isotope id="Ar40_correctedForIsotopeInterference" value="1.70395e-14" error="5.01e0"></Isotope>
     <percentage_radiogenic_argon>4.520</percentage_radiogenic_argon>
335     <IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
     <IsotopeRatio id="radiogenicAr40_Ar39" value="3.307e0" error="0.0e0"></IsotopeRatio>
     <cumulated_percentage_Ar39_released>0.030</cumulated_percentage_Ar39_released>
     <MeasuredAge value="7.116" stddev="11.920"></MeasuredAge>
     <RecalculatedAge>7.116</RecalculatedAge>
340     <IsotopeRatio id="Ca_K" value="2.15e-1" error="0.0e0"></IsotopeRatio>
     <IsotopeRatio id="Cl_K" value="2.14e0" error="0.0e0"></IsotopeRatio>
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     <IsotopeRatio id="Ar39_Ar40" value="1.36820329235e-2" error="1.36774799085e-3"></IsotopeRatio>
     </StepData>
345     <StepData>
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        <Isotope id="Ar37" value="2.6381e-17" error="5.031e1"></Isotope>
        <Isotope id="Ar38" value="6.001e-17" error="1.012e1"></Isotope>
        <Isotope id="Ar39" value="2.47683e-16" error="5.58e0"></Isotope>
        <Isotope id="Ar40" value="1.57399e-14" error="5.6e0"></Isotope>
350     <Isotope id="Ar36_correctedForIsotopeInterference" value="5.23282e-17" error="6.7e0"></Isotope>

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355 <Isotope id="Ar39_correctedForIsotopeInterference" value="2.47683e-16" error="5.58e0"></Isotope>
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 <cumulated_percentage_Ar39_released>0.070</cumulated_percentage_Ar39_released>
 360 <MeasuredAge value="2.387" stddev="11.829"></MeasuredAge>
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 <IsotopeRatio id="Ca_K" value="2.02e-1" error="0.0e0"></IsotopeRatio>
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 365 </StepData>
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 <FurnaceTemperature_DegreesCelsius>490.000</FurnaceTemperature_DegreesCelsius>
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 <Isotope id="Ar38" value="5.2251e-17" error="1.18e1"></Isotope>
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 375 <Isotope id="Ar40" value="1.80876e-14" error="5.15e0"></Isotope>
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 <IsotopeRatio id="radiogenicAr40_Ar39" value="3.149e0" error="0.0e0"></IsotopeRatio>
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 385 <IsotopeRatio id="Ca_K" value="1.79e-1" error="0.0e0"></IsotopeRatio>
 <IsotopeRatio id="Cl_K" value="1.66e0" error="0.0e0"></IsotopeRatio>
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 <IsotopeRatio id="Ar39_Ar40" value="1.55215727902e-2" error="1.59491385312e-3"></IsotopeRatio>
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 395 <Isotope id="Ar36" value="7.07497e-17" error="5.4e0"></Isotope>
 <Isotope id="Ar37" value="2.641e-17" error="5.023e1"></Isotope>
 <Isotope id="Ar38" value="6.1877e-17" error="1.096e1"></Isotope>
 <Isotope id="Ar39" value="3.43971e-16" error="4.82e0"></Isotope>
 <Isotope id="Ar40" value="2.15981e-14" error="4.83e0"></Isotope>
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 <Isotope id="Ar39_correctedForIsotopeInterference" value="3.43971e-16" error="4.82e0"></Isotope>
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 400 <IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
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<Isotope id="Ar38" value="7.3098e-17" error="1.053e1"></Isotope>
<Isotope id="Ar39" value="4.60573e-16" error="3.92e0"></Isotope>
<Isotope id="Ar40" value="2.91407e-14" error="3.92e0"></Isotope>
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<Isotope id="Ar40_correctedForIsotopeInterference" value="2.91407e-14" error="3.92e0"></Isotope>
420 <percentage_radiogenic_argon>5.750</percentage_radiogenic_argon>
<IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="radiogenicAr40_Ar39" value="3.643e0" error="0.0e0"></IsotopeRatio>
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425 <MeasuredAge value="7.837" stddev="7.540"></MeasuredAge>
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<IsotopeRatio id="Cl_K" value="1.33e0" error="0.0e0"></IsotopeRatio>
<IsotopeRatio id="Ar36_Ar40" value="3.18873602899e-3" error="2.57575634518e-4"></IsotopeRatio>
430 <IsotopeRatio id="Ar39_Ar40" value="1.58051453809e-2" error="1.23851886404e-3"></IsotopeRatio>
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<StepData>
435 <StepNumber>5</StepNumber>
<FurnaceTemperature_DegreesCelsius>550.000</FurnaceTemperature_DegreesCelsius>
<Duration_minutes>15.000</Duration_minutes>
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440 <Isotope id="Ar37" value="2.6439e-17" error="5.007e1"></Isotope>
<Isotope id="Ar38" value="7.8723e-17" error="8.24e0"></Isotope>
<Isotope id="Ar39" value="6.9827e-16" error="2.69e0"></Isotope>
<Isotope id="Ar40" value="3.83918e-14" error="2.7e0"></Isotope>
445 <Isotope id="Ar36_correctedForIsotopeInterference" value="1.26274e-16" error="3.35e0"></Isotope>
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<Isotope id="Ar40_correctedForIsotopeInterference" value="3.83918e-14" error="2.7e0"></Isotope>
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675

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 <RecalculatedAge>0.002</RecalculatedAge>

760 <IsotopeRatio id="Ca_K" value="2.28e0" error="0.0e0"></IsotopeRatio>
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 <IsotopeRatio id="Ar36_Ar40" value="3.45482784526e-3" error="3.27085932885e-4"></IsotopeRatio>
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765 </StepData>
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770 <IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
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775 <IsotopeRatio id="Ca_K" value="1.91e0" error="0.0e0"></IsotopeRatio>
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780 </StepData>
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 <StepNumber>32</StepNumber>
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 <Duration_minutes>15.000</Duration_minutes>
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 <Isotope id="Ar37" value="4.82644e-15" error="1.35e1"></Isotope>
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 <Isotope id="Ar39" value="4.91642e-15" error="3.84e0"></Isotope>
 <Isotope id="Ar40" value="8.88084e-13" error="3.84e0"></Isotope>
 <Isotope id="Ar36_correctedForIsotopeInterference" value="2.46322e-15" error="4.01e0"></Isotope>
 <Isotope id="Ar39_correctedForIsotopeInterference" value="4.91642e-15" error="3.84e0"></Isotope>
 <Isotope id="Ar40_correctedForIsotopeInterference" value="8.88084e-13" error="3.84e0"></Isotope>
 <percentage_radiogenic_argon>0.010</percentage_radiogenic_argon>

785 <IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
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 <RecalculatedAge>0.002</RecalculatedAge>

790 <IsotopeRatio id="Ca_K" value="1.91e0" error="0.0e0"></IsotopeRatio>
 <IsotopeRatio id="Cl_K" value="1.01e0" error="0.0e0"></IsotopeRatio>
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795 </StepData>
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 <FurnaceTemperature_DegreesCelsius>1550.000</FurnaceTemperature_DegreesCelsius>
 <Duration_minutes>15.000</Duration_minutes>
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 <Isotope id="Ar37" value="6.03037e-15" error="1.35e1"></Isotope>
 <Isotope id="Ar38" value="1.20607e-15" error="6.31e0"></Isotope>
 <Isotope id="Ar39" value="6.01018e-15" error="3.84e0"></Isotope>
 <Isotope id="Ar40" value="1.10334e-12" error="3.84e0"></Isotope>
 <Isotope id="Ar36_correctedForIsotopeInterference" value="3.02022e-15" error="4.01e0"></Isotope>
 <Isotope id="Ar39_correctedForIsotopeInterference" value="6.01018e-15" error="3.84e0"></Isotope>
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 <percentage_radiogenic_argon>0.010</percentage_radiogenic_argon>

800 <IsotopeRatio id="Ar40_Ar39" value="0.0e0" error="0.0e0"></IsotopeRatio>
 <IsotopeRatio id="radiogenicAr40_Ar39" value="1.0e-3" error="0.0e0"></IsotopeRatio>
 <cumulated_percentage_Ar39_released>100.000</cumulated_percentage_Ar39_released>
 <MeasuredAge value="0.002" stddev="19.498"></MeasuredAge>
 <RecalculatedAge>0.002</RecalculatedAge>

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805  </StepData>
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    <Parameter id="FluxMonitorAge" value="98.50" uncertainty="0.80" />
    <Parameter id="FluxMonitor_40Ar_39Ar_ratio" value="4.6945E+01" uncertainty="0.24" />
    <Parameter id="MassDiscrimination" value="0.98769" uncertainty="0.15" />
810  <Parameter id="Atmospheric_40Ar_36Ar_ratio" value="295.55" uncertainty="" />
    <Parameter id="CorrectionFactor_36Ar_using_37Ar_fromCa" value="3.2860E-04" uncertainty="" />
    <Parameter id="CorrectionFactor_39Ar_using_37Ar_fromCa" value="7.9250E-04" uncertainty="" />
    <Parameter id="CorrectionFactor_40Ar_using_39Ar_fromZeroAgeK" value="3.3450E-02" uncertainty="" />
815  <Parameter id="CorrectionFactor_38Ar_using_39Ar_fromZeroAgeK" value="1.1320E-02" uncertainty="" />
    <Parameter id="ChlorineConversionRatio_38Ar_39Ar_fromZeroAgeK" value="8.1530E-02" uncertainty="" />
    <Parameter id="DecayConstantK" value="5.5430E-10" uncertainty="0.192" />
</CalculationParameters>
</ArgonData>
</eArgonDataObject>
820  </eArgon>
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825

830

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\$11 XML for the fractal crystal used by *MacArgon* for modelling purposes

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<?xml version="1.0" encoding="UTF-8"?>
<MacArgon>
840   <FractalCrystal>
     <DiffusionDomainParameters>
       <!--Description of Alunite I Ren and Vasconcelos-->
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       <FrequencyFactor>2.39e7</FrequencyFactor>
845       <DiffusionRadiusInMicrons>1.0e2</DiffusionRadiusInMicrons>
       <D0_a2>2.39e11</D0_a2>
       <DomainHasBeenActivated>true</DomainHasBeenActivated>
       <NumberOfFractalIterations>0</NumberOfFractalIterations>
       <SortOfDomain>sphere</SortOfDomain>
850       <DomainCanBeUsedInMicrostructuralEvent>false</DomainCanBeUsedInMicrostructuralEvent>
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     <DiffusionDomainParameters>
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855       <FrequencyFactor>1.18e8</FrequencyFactor>
       <DiffusionRadiusInMicrons>1.0e2</DiffusionRadiusInMicrons>
       <D0_a2>1.18e12</D0_a2>
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860       <SortOfDomain>sphere</SortOfDomain>
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       <FrequencyFactor>2.9e28</FrequencyFactor>
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865       <D0_a2>2.9e32</D0_a2>
       <DomainHasBeenActivated>true</DomainHasBeenActivated>
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       <SortOfDomain>sphere</SortOfDomain>
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       <FractalRadiusIterator>2.5e0</FractalRadiusIterator>
870       <RelativeVolume>1.0e0</RelativeVolume>
       <FractalType>__branchingFractal__</FractalType>
       <DomainCanBeUsedInMicrostructuralEvent>false</DomainCanBeUsedInMicrostructuralEvent>
     </DiffusionDomainParameters>
     <DiffusionDomainParameters>
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875       <D0_a2>1.7e18</D0_a2>
       <DomainHasBeenActivated>false</DomainHasBeenActivated>
       <NumberOfFractalIterations>0</NumberOfFractalIterations>
       <SortOfDomain>sphere</SortOfDomain>
       <RelativeVolume>5.0e0</RelativeVolume>
       <DomainCanBeUsedInMicrostructuralEvent>true</DomainCanBeUsedInMicrostructuralEvent>
880     </DiffusionDomainParameters>
   </FractalCrystal>
890 </MacArgon>
```

Minimum Required Data

- Report uncertainties for all parameters (e.g., 95% confidence interval, 1σ , 2σ)
- Explicitly stated whether uncertainties on ages include decay constant uncertainties
- Report sample identifier (ideally unique, e.g., International Geo Sample Number [IGSN])
- Report sample location (e.g., latitude, longitude, elevation)
- Report sample lithology
- Specify material analyzed specified (e.g., single vs. multi-crystal aliquot, weight, phase type)
- Report relative isotope abundances[†] for ^{40}Ar , ^{39}Ar , ^{38}Ar , ^{37}Ar , and ^{36}Ar
- Describe step heating schedule and/or laser power/wattage per analysis
- Identify reactor and port used for irradiation (and if Cd shielding or rotation was used)
- Describe fluence monitor details (e.g., name, age assumed, reference, J value)
- Report decay constants used (e.g., ^{40}K , ^{39}Ar , ^{37}Ar , ^{36}Cl), references cited
- Identify interfering isotope production ratios (e.g., Ar produced from K, Ca, Cl), references cited
- Report ratios used for trapped[§] argon correction ($^{40}\text{Ar}/^{36}\text{Ar}$, $^{40}\text{Ar}/^{38}\text{Ar}$), reference cited
- Indicate time interval used in decay corrections (e.g., days from end of irradiation to start of analysis)
- Report proportion radiogenic ^{40}Ar (% $^{40}\text{Ar}^*$)
- Provide model age and unit of each analysis (e.g., yr, ka, Ma, Ga)
- List F value ($^{40}\text{Ar}^*/^{39}\text{Ar}_\text{K}$)
- Distinguish which steps are included in the age spectrum/isochron
- Report statistics to evaluate robustness of data (e.g., MSWD, p-value)
- Publish data tables in tabular (e.g., CSV, XLS) or machine-readable (e.g., JSON/XML) file format

Recommended Data

- Describe sample treatment (e.g., mineral separation techniques, acid treatment used)
- Identify data reduction software used (e.g., Mass Spec, ArArCALC, PyChron, in-house)
- List grain size of material analyzed
- Report representative blank measurements
- Report frequency of blank/air/cocktail measurements

[†] Corrected for baseline, background, mass discrimination and/or detector intercalibration, reactor interferences, and radioactive decay

[§] For terrestrial samples, this is commonly the composition of atmospheric argon

*Note: that the uncertainties for Ca/K and Cl/K are not reported here.